

1st keyword search

| Ref # | Hits   | Search Query            | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|-------------------------|---|------------------|---------|------------------|
| L1    | 767    | "actuator diaphragm"    | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 12:10 |
| L2    | 136322 | acrylonitrile           | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 12:08 |
| L3    | 154782 | butadiene               | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 12:08 |
| L4    | 57439  | plasticizer             | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 13:37 |
| L5    | 429036 | silica                  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 13:37 |
| L6    | 7      | L1 and L2 and L3        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 12:09 |
| L7    | 0      | L1 and L2 and L3 and L4 | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 12:08 |
| L8    | 4      | L1 and L2 and L3 and L5 | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 12:08 |
| L9    | 7939   | actuator with diaphragm | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 12:10 |
| L10   | 4      | L9 and L2 and L3 and L5 | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 12:10 |

|     |         |                                    |   |    |     |                  |
|-----|---------|------------------------------------|---|----|-----|------------------|
| L11 | 8428    | rubber with diaphragm              | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 12:17 |
| L12 | 9414    | rubber with membrane               | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 12:11 |
| L13 | 1104964 | valve                              | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 12:11 |
| L14 | 188     | L11 and L2 and L3                  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 12:12 |
| L15 | 28      | L11 and (L2 with L3) and L5        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 12:12 |
| L16 | 173807  | diaphragm                          | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 12:18 |
| L17 | 97      | L16 and (L2 with L3) and L4 and L5 | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 12:18 |
| L18 | 69288   | diaphragm.ti,clm.                  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 12:18 |
| L19 | 10      | L17 and L18                        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:17 |
| L20 | 87      | L17 not L19                        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:17 |
| L21 | 0       | L17 not L19 and actuator           | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:17 |

|     |       |   |   |    |     |                  |
|-----|-------|---|---|----|-----|------------------|
| L22 | 87    | L17 not L19   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:25 |
| L23 | 97    | (L2 with L3) and L4 and L5 and L16                      | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:26 |
| L24 | 10    | L23 not L22   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:25 |
| L25 | 19    | (L2 with L3) and L4 and L5 and L12                      | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:31 |
| L26 | 717   | (L2 with L3) and L4 and L5 and "coupling agent"         | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:32 |
| L27 | 3433  | (L2 with L3) and L4 and L5                              | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:37 |
| L28 | 15    | (L2 with L3) and L4 and L5 and "coupling agent" and L16 | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:32 |
| L29 | 49907 | silica.clm.   | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:37 |
| L30 | 10175 | plasticizer.clm.  | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:37 |
| L31 | 38    | L26 and L29 and L30                                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 13:56 |

2<sup>o</sup> search

| Ref # | Hits  | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|---|------------------|---------|------------------|
| L1    | 18955 | acrylonitrile.clm.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:03 |
| L2    | 11980 | nitrile.clm.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:03 |
| L3    | 23398 | butadiene.clm.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:03 |
| L4    | 50661 | silica.clm.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:03 |
| L5    | 13101 | plasticizer.clm.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:05 |
| L6    | 13    | (L1 and L2 and L3) and L4 and L5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:14 |
| L7    | 157   | (L1 or L2 and L3) and L4 and L5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:14 |
| L8    | 106   | ((L1 or L2) with L3) and L4 and L5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:48 |
| L9    | 482   | ((acrylonitrile or nitrile) with butadiene) and silica and plasticizer and "coupling agent" and (diaphragm or seal or membrane or gasket) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:51 |
| L10   | 59    | ((acrylonitrile or nitrile) with butadiene) and silica and plasticizer and "coupling agent" and diaphragm                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:58 |
| L11   | 122   | ((acrylonitrile or nitrile) with butadiene) and silica and plasticizer and "coupling agent" and membrane                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 15:05 |
| L12   | 113   | L11 not L10   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 14:59 |
| L13   | 282   | ((acrylonitrile or nitrile) with butadiene) and silica and plasticizer and "coupling agent" and seal                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2005/03/01 15:05 |

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| L14 | 221 | L13 not (L11 or L10)                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/03/01 15:06 |
| L15 | 8   | L13 not (L11 or L10) and L4 and L5            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/03/01 15:07 |
| L16 | 53  | L13 not (L11 or L10) and ((L1 or L2) with L3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2005/03/01 15:08 |

| Ref # | Hits   | Search Query                     | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|----------------------------------|---|------------------|---------|------------------|
| L1    | 26651  | "fuel pump"                      | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 20:42 |
| L2    | 173807 | diaphragm                        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 20:42 |
| L3    | 2992   | L1 and L2                        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 20:42 |
| L4    | 934    | L1 with L2                       | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 20:42 |
| L5    | 281555 | fuel.ti,clm.                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 20:43 |
| L6    | 280104 | pump.ti,clm.                     | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 20:43 |
| L7    | 69288  | diaphragm.ti,clm.                | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 20:43 |
| L8    | 972    | L5 and L6 and L7                 | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 20:43 |
| L9    | 319    | (L5 adj L6) with L7              | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 20:44 |
| L10   | 29     | (L5 adj L6) with L7 and actuator | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR               | OFF     | 2005/03/01 21:08 |

|     |       |                                       |   |    |     |                  |
|-----|-------|---------------------------------------|---|----|-----|------------------|
| L11 | 70944 | "fuel injection"                      | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 21:08 |
| L12 | 295   | L1 and L2 and L11 and actuator        | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 21:08 |
| L13 | 64    | L1 and L2 and L11 and actuator and L7 | US-PGPUB;<br>USPAT;<br>EPO;<br>DERWENT<br>; IBM_TDB | OR | OFF | 2005/03/01 21:08 |